

DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
INDIANAPOLIS

OFFICE MEMORANDUM

Date: January 11, 2017

To: Nathan Shoaf
Voluntary Remediation Program

Thru: Steve Buckel / 1/12/17

From: Kristy M. McIntire *KMM* 11/11/17
Chemistry Services Section

Subject: Analytical Results for Former Ross Dry Cleaners
Muncie, Delaware County, Indiana
Site # 6130402
VFC Document # 80392552
Sampled: August 29, 2016
Sample Number: MW-12D
Envision

The analytical results for the samples identified above have been validated according to the quality criteria contained in the Test Methods for Evaluating Solid Waste, Physical/Chemical Methods (SW-846) Third Edition, and its updates. Based on the evaluation, it has been determined that the results are acceptable for use. Reasons that data are qualified as estimated are explained below.

General Comments:

The purpose of this event was to sample the groundwater to determine vertical extent of contamination. The collected sample was analyzed for VOCs.

Sampling Quality Assurance/Quality Control:

Field documentation did allow for interpretation of the data. Groundwater samples were collected utilizing low-flow sampling procedures. The low-flow field sheets were not provided and therefore, it could not be determined if low-flow was conducted properly. The results for MW-12D are estimated biased low.

Field duplicate samples are used to establish the representativeness of field sampling (i.e., the homogeneity and sample variability). Field duplicates were collected from MW-12D. The groundwater duplicate samples for this study were in good agreement.

Field blanks (trip and/or equipment) are used to identify sample contamination resulting from sampling equipment, sample containers, chemical preservatives, and the handling and transportation of samples. The trip blank was collected and no VOCs were

detected. The equipment blank was not required since dedicated equipment was utilized.

Laboratory Quality Assurance/Quality Control:

The laboratory performed all QA/QC measures necessary to validate the analytical results for this sampling event. The data was determined to be valid. Based on the validation of the analytical results, the following comments and/or qualifications are made regarding the data:

VOCs

A groundwater sample was analyzed for VOCs by EPA Method 8260. All QA/QC criteria were satisfactory.

Results:

Cis-1,2-dichloroethene was detected above the laboratory detection limit but below the GWSL. All other VOCs were non-detect.

Conclusions:

The data are usable for the overall project goal.